

Mitosis and Meiosis

8th Grade

Two kinds of cell division doing two completely different jobs.

MITOSIS

- Growth and repair
- One division
- Two identical daughter cells
- Same chromosome number as parent
- Happens in body cells

MEIOSIS

- Making sex cells
- Two divisions
- Four different daughter cells
- Half the chromosome number
- Happens in reproductive organs

THE DIFFERENCE THAT MATTERS

Mitosis copies. Meiosis halves and shuffles — which is why siblings differ.

Halving in meiosis is what stops the chromosome number doubling every generation.